

A. Permit Certificate

**INDUSTRIAL  
REUSE PERMIT  
LA-000155-01**

**United States Department of Energy – Pittsburgh Naval Reactors Office –  
Idaho Branch Office – Idaho, P.O. Box 2469, Idaho Falls, Idaho 83403** ARE  
HEREBY AUTHORIZED TO CONSTRUCT, INSTALL, AND OPERATE A  
REUSE TREATMENT SYSTEM IN ACCORDANCE WITH THE REUSE  
RULES (IDAPA 58.01.17), THE WASTEWATER RULES (IDAPA 58.01.16),  
THE GROUND WATER QUALITY RULE (IDAPA 58.01.11), AND  
ACCOMPANYING PERMIT, APPENDICES, AND REFERENCE  
DOCUMENTS. **THIS PERMIT IS APPLICABLE TO THE NAVAL  
REACTORS FACILITY (NRF) LOCATED AT THE IDAHO NATIONAL  
LABORATORY (INL) IN BUTTE COUNTY, TOWNSHIP 4N, RANGE  
30E, SECTION 30.** THIS PERMIT IS EFFECTIVE FROM THE DATE OF  
SIGNATURE AND EXPIRES ON **(60 months from issue date)**.

**DRAFT**

James Johnston  
Idaho Falls Regional Administrator  
Idaho Department of Environmental Quality

Date Issued: \_\_\_\_\_

**DEPARTMENT OF ENVIRONMENTAL QUALITY  
900 North Skyline, Suite B  
Idaho Falls, Idaho 83402  
(208) 528- 2650**

**POSTING ON SITE RECOMMENDED**

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### References

1. Plan of Operation (O&M Manual) (See Section E, CA-155-01)
2. Contingency Plan (See Section E, CA-155-02)
3. Solid Waste Management Plan (See Section E, CA-155-03)

The Sections, Appendices, and References listed on this page are all elements of Reuse Permit LA-000155-01 and are enforceable as such. This permit does not relieve the United States Department of Energy, hereafter referred to as the permittee, from responsibility for compliance with other applicable federal, state or local laws, rules, standards or ordinances.

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## C. Abbreviations, Definitions

AEA	Atomic Energy Act
amsl	Above Mean Sea Level
bgs	Below Ground Surface
DEQ or the Department	Idaho Department of Environmental Quality
Director	Director of the Idaho Department of Environmental Quality, or the Directors Designee, i.e. Regional Administrator
ECMS	Effluent Control and Monitoring Station
GW	Ground Water
GWQR	IDAPA 58.01.11 "Ground Water Quality Rule"
Guidance	Guidance for Land Application of Municipal and Industrial Wastewater
HMU	Hydraulic Management Unit (Serial Number designation is MU)
IDAPA	Idaho Administrative Procedures Act.
INL	Idaho National Laboratory
IWD	Industrial Waste Ditch
MG	Million Gallons (1 MG = 36.827 acre-inches)
MGA	Million Gallons Annually (per Reuse Reporting Year)
NRF	Naval Reactors Facility
O&M manual	Operation and Maintenance Manual, also referred to as the Plan of Operation
SOP	Standard Operating Procedures

TDS	Total Dissolved Solids or Total Filterable Residue
USDOE	United States Department of Energy
USGS	United States Geological Survey
Reuse Reporting Year	The reporting year begins with the non-growing season and extends through the growing season of the following year, typically November 01 – October 31. For example, the 2000 Reporting Year would be November 01, 1999 through October 31, 2000.
WW	Wastewater applied to the land application treatment site

## D. Facility Information

<b>Legal Name of Permittee</b>	United States Department of Energy (USDOE), Pittsburgh Naval Reactors Office, Idaho Branch Office
<b>Type of Wastewater</b>	Industrial wastewater consisting primarily of precipitation runoff, prototype plate water, cooling system water and ion exchange regeneration solutions. Wastewater discharged at this facility is non-radioactive and non-sewage wastewater.
<b>Method of Treatment</b>	Percolation into subsurface of Industrial Waste Ditch (IWD). All wastewater released to the IWD is non-hazardous and non-radiological. No pre-treatment of wastewater prior to infiltration is performed.
<b>Type of Facility</b>	Federal (USDOE) facility located at the Idaho National Laboratory (INL). The IWD system is associated with the Naval Reactors Facility (NRF).
<b>Facility Location</b>	Idaho National Laboratory, NRF. NRF is located approximately 11 miles north of the U.S. Highway 20/26 interchange.
<b>Legal Location</b>	4N Township, 30E Range, 30 Section
<b>County</b>	Butte
<b>USGS Quad</b>	East of Howe Peak, Idaho (Formerly Circular Butte 3 NW, Idaho)
<b>Soils on Site</b>	Loess (silty clay) over Alluvium (sand and gravel). The loess ranges in thickness from 0.5 to 9 feet. The alluvium sequence underlying the loess ranges in thickness from 3 to 30 feet.
<b>Depth to Ground Water</b>	Depth to Snake River Plain Aquifer: 378 feet
<b>Beneficial Uses of Ground Water</b>	Agriculture, Industrial and Domestic
<b>Nearest Surface Water</b>	The Big lost River is located approximately 3 miles to the south of the IWD. The Big Lost River is typically dry most years.
<b>Beneficial Uses of Surface Water</b>	Cold Water Biota, Salmonid Spawning, Primary Contact Recreation, Domestic Water Supply, and Special Resource Water (IDAPA 58.01.02.150.20)
<b>Responsible Official Mailing Address</b>	Mr. Stephen Dunn, Operations Manager United States Department of Energy Pittsburgh Naval Reactors Office P.O. Box 2469 Idaho Falls, Idaho 83403
<b>Phone / Fax</b>	(208)533-5294 / 5160 (fax)
<b>Facility Contact Mailing Address</b>	Ms. Wendy Dixon, Regulatory Affairs United States Department of Energy Pittsburgh Naval Reactors Office P.O. Box 2469 Idaho Falls, ID 83403
<b>Phone / Fax</b>	(208) 533-5294 / 5160 (Fax)

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## D. Facility Information

Additional Facility Information: The United States Department of Energy (USDOE) is a federal agency of the Executive Branch. By applying for, and accepting this Reuse, USDOE reserves and does not waive any rights, authority, claim or defenses, including both sovereign immunity and federal preemption under the Atomic Energy Act (AEA) that it may have or wish to pursue in any administrative, judicial or other proceeding.

USDOE asserts, with respect to AEA radioactive materials, that it is a self-regulating entity under the AEA. As such, the approval granted by DEQ to the permittee to land apply wastewater, as contained in this permit, does not authorize the application or disposal of AEA radioactive materials that may occur during the Reuse activities authorized by this permit.

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## E. Compliance Schedule for Required Activities

The Activities in the following table shall be completed on or before the Completion Date unless modified by the Department in writing.

<b>Compliance Activity Number Completion Date</b>	<b>Compliance Activity Description</b>
<b>CA-155-01 May 31, 2007</b>	<p>A final Plan of Operation (Operation and Maintenance Manual or O&amp;M Manual) for the Reuse facilities, incorporating the requirements of this permit, shall be submitted to DEQ for review and approval. The O&amp;M manual shall be designed for use as an operator guide for actual day-to-day operations to meet permit requirements. The Plan of Operation shall contain at a minimum all of the information required by the latest revision of the Plan of Operation Checklist in the Reuse Program Guidance. The plan may reference other written procedures required for the operation and maintenance of the Industrial Waste Ditch system.</p> <p>Upon approval, the manual shall be incorporated by reference into this permit and shall be enforceable as a part of this permit.</p>
<b>CA-155-02 May 31, 2007</b>	A Contingency Plan shall be submitted for DEQ review and approval. The plan shall outline actions to be taken in the event there is an inadvertent release of radiological material or hazardous waste to the IWD.
<b>CA-155-03 May 31, 2007</b>	A Solid Waste Management Plan shall be submitted for DEQ review and approval. The plan shall outline actions associated with the removal (dredging) of solids in the IWD. The plan shall include: specific information used in the determining the need for removal of solids, responsible person(s) for the decision, and a complete SOP for the removal of the solids.

## F. Permit Limits and Conditions

Category	Permit Limits and Conditions
Type of Wastewater	Industrial wastewater consisting primarily of precipitation runoff, prototype plate water, cooling system water and ion exchange regeneration solutions. Wastewater discharged at this facility is non-radioactive and non-sewage wastewater.
Application Site Area	Industrial Waste Ditch (IWD). IWD consists of two discrete drainage systems. The interior IWD is comprised of a network of buried pipes, culverts, and open channels within the NRF security fence. This network empties into a covered exterior culvert, flows through an environmental monitoring station vault where the flow is converted from input to flow with a 'V-notched' weir, and finally outfalls to an uncovered exterior channel at the northwest corner of NRF. The exterior channel extends northeast of the facility for approximately 3.2 miles.
Application Season	Year-round (365 days)
Reporting Year for Annual Loading Rates	Calendar year beginning January 1 and ending on December 31.
Maximum Hydraulic Loading Rate	10.0 million gallons per reporting year
Ground Water Quality	Ground water quality shall be in compliance with the Ground Water Quality Rule (GWQR), IDAPA 58.01.11.
Maximum Effluent Concentrations, prior to disposal into IWD, for Total Nitrogen and Total TSS	<p>The maximum effluent constituent concentrations for Total Nitrogen and Total Suspended Solids monitored at the Effluent Control and Monitoring Station (ECMS) shall not exceed the following:</p> <p>Nitrogen (Total as N) shall not exceed a thirty (30) day average concentration of twenty (20) mg/L, IDAPA58.01.17.600.06.b</p> <p>Total Suspended Solids (TSS), which includes organic and inorganic particulate matter, shall not exceed a thirty (30) day average concentration of one hundred (100) mg/L, IDAPA58.01.17.600.06.a</p>
Buffer Zones	The NRF Facility is a restricted facility with no public access. These restrictions shall remain in force for the duration of this permit. All buffer zones must comply with, at a minimum, the local zoning ordinances.
Construction Plans	Prior to construction or modification of all wastewater facilities associated with the land application system or expansion, including monitoring wells, detailed plans and specifications shall be reviewed and approved by DEQ. Within 30 days of completion of construction, the permittee shall submit as-built plans for review and approval.
Fencing and Posting	Fencing and Posting is not required as this facility.

## G. Monitoring Requirements

- 1) Pursuant to IDAPA 58.01.02.090.01 and IDAPA 58.01.11.200.01.(c)., appropriate analytical methods, as given in 40 CFR 136, 40 CFR 141, 40 CFR 143, or as approved by the Idaho Department of Environmental Quality, shall be employed. A description of approved sample collection methods, appropriate analytical methods and companion QA/QC protocol shall be included in the Operation and Maintenance Manual or other written procedures.
- 2) The permittee shall monitor and measure parameters as stated in the Facility Monitoring Table in this section.
- 3) Samples shall be collected at times and locations that represent typical environmental and process parameters being monitored.
- 4) Unless otherwise specified in this permit, influent and effluent wastewater samples shall be 24 hour flow-proportioned samples of at least 8 aliquots collected either manually or automatically in a manner that yields a representative sample.
- 5) One (1) sediment grab sample shall be collected at the outfall of the management unit annually. Six (6) sediment grab samples shall be collected annually from random locations selected from wetted areas within the management unit according to *Soil and Sediment Sampling at the Industrial Waste Ditch* found in Environmental Control Manual (NRF 2455) and collected in a manner consistent with the Standard Operating Procedures of NRF 2455.
- 6) Groundwater Monitoring Procedure: Groundwater Monitoring Wells shall be purged a minimum of three casing volumes and/or until field measurements for pH, specific conductance and temperature meet the following conditions: two successive temperature values measured at least five minutes apart are within one degree Celsius of each other, pH values for two successive measurements measured at least five minutes apart are within 0.2 units of each other, and two successive specific conductance values measured at least five minutes apart are within 10% of each other. This procedure will determine when the wells are suitable for sampling for constituents required by the permit. Other procedures, such as low flow sampling, may be considered by DEQ for approval. The static water level shall be measured prior to pumping or sampling for groundwater. Wells with inadequate sampling volume shall be reported as "Dry" in the Annual Report.
- 7) Annual reporting of monitoring requirements is described in Section H, Standard Reporting Requirements.
- 8) Monitoring locations are defined in Appendix 1, "Environmental Monitoring Serial Numbers".

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## G. Monitoring Requirements

### Facility Monitoring Table

Frequency	Monitoring Point	Description/Type of Monitoring	Parameters
Daily	Flow meter (ECMS)	Flow of wastewater into IWD	Volume (gallons) to IWD. Report daily, monthly, and annual totals within annual report.
Monthly	Effluent to IWD at outfall (ECMS)	Wastewater quality into IWD –Composite  See Note 4	Alkalinity, aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chloride, chromium, copper, cyanide, iron, lead, magnesium, manganese, mercury, nickel, nitrate-nitrogen, nitrite-nitrogen, oil and grease, organic halogen, pH, phosphorous, potassium, selenium, silver, sodium, specific conductance, sulfate, temperature, thallium, total dissolved solids, total Kjeldahl nitrogen, total suspended solids, zinc.
Three (3) times per year (March, July, November)	Groundwater monitoring wells, listed in Appendix 1	Groundwater quality – Grab  See Note 6	Water table elevation (amsl), water table depth (bgs), alkalinity, aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chloride, chromium, copper, iron <sup>1</sup> , lead, magnesium, manganese <sup>1</sup> , mercury, nickel, nitrate-nitrogen, nitrite-nitrogen, organic halogen, pH, potassium, selenium, silver, sodium, specific conductance, sulfate, thallium, total dissolved solids, zinc, and temperature.
Annually	Sediment at IWD	Sediment quality – Grab  See Note 5	Aluminum, ammonium (NH <sub>4</sub> <sup>+</sup> ), antimony, arsenic, barium, beryllium, cadmium, calcium, chloride, chromium, copper, iron, lead, magnesium, manganese, mercury, nickel, nitrate-nitrogen, nitrite-nitrogen, oil and grease, organic halogen, pH, phosphorous, potassium, selenium, silver, sodium, specific conductance, sulfate, thallium, total Kjeldahl nitrogen, total dissolved solids, and zinc. SOC's and VOC's according to Table-1 of the Sediment Sampling Matrix, Environmental Control Manual (NRF 2455).

1. Analytical results are required for dissolved iron and/or manganese only if the results for total iron and/or manganese exceed the standards in IDAPA 58.01.11.200.01.b.

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## H. Standard Reporting Requirements

- 1.) The Permittee shall submit an Annual Reuse Site Performance Report ("Annual Report") prepared by a competent environmental professional no later than May 31 of each year, which shall cover the previous reporting year (calendar year). The Annual Report shall include an interpretive discussion of monitoring data (ground water, soils, hydraulic loading, wastewater etc.) with particular respect to environmental impacts by the facility. The Annual Report shall include ground water contour maps indicating depth to water, water table elevation, and direction of flow for each monitoring period, utilizing the monitoring wells specified in Appendix 1 of this permit.
- 2.) The annual report shall contain the results of the required monitoring as described in *Section G. Monitoring Requirements*. The permittee shall summarize and submit all monitoring data generated by the facility as specified in *Section G* to the Department with the annual report. If the permittee monitors any parameter for compliance purposes more frequently than required by this permit, the results of the additional compliance monitoring shall be included in this summary and submitted in the annual report. Data collected in support of the daily operation of the treatment system shall not be included.
- 3.) The annual report shall contain a discussion of all noncompliance events, reported under Section I.7 of this permit, which occurred during the Reuse Reporting Year. The discussion shall include the cause of each noncompliance, the corrective actions implemented to reduce or eliminate each noncompliance, and whether or not each noncompliance has been corrected. For the noncompliance events that have not been corrected, the annual report shall present further corrective actions that will be implemented to reduce or eliminate the noncompliance, including an implementation plan and schedule for the corrective actions and an expected time period when the facility expects to return to compliance.
- 4.) One copy of the annual report shall be submitted to the Engineering Manager in the Idaho Falls Regional Office.

Greg Eager, P.E.  
Idaho Falls Regional Office  
900 N. Skyline, Suite B  
Idaho Falls, ID 83402  
208-528-2650

One copy of the annual report shall also be mailed to:

Richard Huddleston, P.E.  
Wastewater Program Manager  
1410 N. Hilton  
Boise, ID 83706  
208-373-0561

- 5.) Notice of completion of any work described in *Section E. Compliance Schedule for Required Activities* shall be submitted to the Department within 30 days of activity completion. The status of all other work described in Section E shall be submitted with the Annual Report.
- 6.) The permittee shall provide the results of water quality testing performed at wells NRF-2 and NRF-3 as required by the DEQ Drinking Water Program in the Annual Report.
- 7.) The permittee agrees to provide to DEQ the yearly radiological sampling results from the NRF

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## H. Standard Reporting Requirements

annual environmental monitoring program within the Annual Report.

- 8.) The permittee agrees to provide to DEQ the results of the Quantitative Isotopic Gamma monitoring performed within the wetted area of the IWD as part of the annual environmental monitoring program at NRF. The permittee agrees to provide the results at the same time as the Annual Reports.

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## I. Standard Permit Conditions: Procedures and Reporting

1. The permittee shall at all times properly maintain and operate all structures, systems, and equipment for treatment, operational controls and monitoring, which are installed or used by the permittee to comply with all conditions of the permit or the Reuse Permit Regulations, in conformance with a DEQ approved, current Plan of Operations (Operations and Maintenance Manual) which describes in detail the operation, maintenance, and management of the wastewater treatment system. This Plan of Operations shall be updated as necessary to reflect current operations.
  2. Wastewater(s) or recharge waters applied to the land surface must be restricted to the premises of the application site unless permission has been obtained from the DEQ authorizing a discharge into the waters of the State as stated in IDAPA 58.01.16.
  3. Wastewater must not create a public health hazard or nuisance condition as stated in IDAPA 58.01.16.
  4. All waste solids, including dredgings and sludges, shall be utilized or disposed in a manner which will prevent their entry, or the entry of contaminated drainage or leachate therefrom, into the waters of the state such that health hazards and nuisance conditions are not created; and to prevent impacts on designated beneficial uses of the ground water and surface water. The permittee's management of waste solids shall be governed by the terms of the DEQ approved Waste Solids Management Plan, which upon approval shall be an enforceable portion of this permit.
  5. If the permittee intends to continue operation of the permitted facility after the expiration of an existing permit, the permittee shall apply for a new permit at least six months prior to the expiration date of the existing permit in accordance with the Reuse Permit Regulations and include seepage tests on all lagoons per latest DEQ procedures.
  6. The permittee shall allow the Director of the Idaho Department of Environmental Quality or the Director's designee (hereinafter referred to as Director), consistent with Title 39, Chapter 1, Idaho Code, to:
    - a. Enter the permitted facility,
    - b. Inspect any records that must be kept under the conditions of the permit.
    - c. Inspect any facility, equipment, practice, or operation permitted or required by the permit.
    - d. Sample or monitor for the purpose of assuring permit compliance, any substance or any parameter at the facility.
  7. The permittee shall report to the Director under the circumstances and in the manner specified in this section:
    - a. In writing thirty (30) days before any planned physical alteration or addition to the permitted facility or activity if that alteration or addition would result in any significant change in information that was submitted during the permit application process.
    - b. In writing thirty (30) days before any anticipated change which would result in non-compliance with any permit condition or these regulations.
    - c. Orally within twenty-four (24) hours from the time the permittee became aware of any non-compliance which may endanger the public health or the environment at telephone numbers provided in the permit by the Director (see below)
- DEQ Regional Office: see Permit Certificate Page  
Emergency 24 Hour Number: 1-800-632-8000
- d. In writing as soon as possible but within five (5) days of the date the permittee knows or should know of any non-compliance unless extended by the DEQ. This report shall contain:
    - i. A description of the non-compliance and its cause;
    - ii. The period of non-compliance including to the extent possible, times and dates and, if the non-compliance has not been corrected, the anticipated time it is expected to continue; and
    - iii. Steps taken or planned to reduce or eliminate reoccurrence of the non-compliance.

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## I. Standard Permit Conditions: Procedures and Reporting

- e. In writing as soon as possible after the permittee becomes aware of relevant facts not submitted or incorrect information submitted, in a permit application or any report to the Director. Those facts or the correct information shall be included as a part of this report.
- 8. The permittee shall take all necessary actions to prevent or eliminate any adverse impact on the public health or the environment resulting from permit noncompliance.
- 9. The permittee shall determine (on an on-going basis) if any noxious weed problems relate to the permitted sites. Noxious weeds shall be controlled in accordance with Idaho Code Title 22, Chapter 24. Also address these control operations in the Operations and Maintenance Manual.

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## J. Standard Permit Conditions: Modifications, Violation and Revocation

1. The permittee shall furnish to the Director within reasonable time, any information including copies of records, which may be requested by the Director to determine whether cause exists for modifying, revoking, re-issuing, or terminating the permit, or to determine compliance with the permit or these regulations.
2. Both minor and major modifications may be made to this permit as stated in IDAPA 58.01.17.700.01 and 02 with respect to any conditions stated in this permit upon review and approval of the DEQ.
3. Whenever a facility expansion, production increase or process modification is anticipated which will result in a change in the character of pollutants to be discharged or which will result in a new or increased discharge that will exceed the conditions of this permit, or if it is determined by the DEQ that the terms or conditions of the permit must be modified in order to adequately protect the public health or environment, a request for either major or minor modifications must be submitted together with the reports as described in Section I. *Standard Reporting Requirements*, and plans and specifications for the proposed changes. No such facility expansion, production increase or process modification shall be made until plans have been reviewed and approved by the DEQ and a new permit or permit modification has been issued.
4. Permits shall be transferable to a new owner or operator provided that the permittee notifies the Director by requesting a minor modification of the permit before the date of transfer.
5. Any person violating any provision of the Reuse Permit Regulations, or any permit or order issued thereunder shall be liable for a civil penalty not to exceed ten thousand dollars (\$10,000) or one thousand dollars (\$1,000) for each day of a continuing violation, whichever is greater. In addition, pursuant to Title 39, Chapter 1, Idaho Code, any willful or negligent violation may constitute a misdemeanor.
6. The Director may revoke a permit if the permittee violates any permit condition or the Reuse Permit Regulations.
7. Except in cases of emergency, the Director shall issue a written notice of intent to revoke to the permittee prior to final revocation. Revocation shall become final within thirty-five (35) days of receipt of the notice by the permittee, unless within that time the permittee request an administrative hearing in writing to the Board of Environmental Quality pursuant to the Rules of Administrative Procedures contained in IDAPA 58.01.23.
8. If, pursuant to Idaho Code 67-5247, the Director finds the public health, safety or welfare requires emergency action, the Director shall incorporate findings in support of such action in a written notice of emergency revocation issued to the permittee. Emergency revocation shall be effective upon receipt by the permittee. Thereafter, if requested by the permittee in writing, a revocation hearing before the Board of Environmental Quality shall be provided. Such hearings shall be conducted in accordance with the Rules of Administrative Procedures contained in IDAPA 58.01.23.
9. The provisions of this permit are severable and if a provision or its application is declared invalid or unenforceable for any reason, that declaration will not affect the validity or enforceability of the remaining provisions.
10. The permittee shall notify the DEQ at least six (6) months prior to permanently removing any permitted land application facility from service, including any treatment, storage, or other facilities or equipment associated with the land application site. Prior to commencing closure activities, the permittee shall: a) participate in a pre-site closure meeting with the DEQ; b) develop a site closure plan that identifies specific closure, site characterization, or cleanup tasks with scheduled task completion dates in accordance with agreements made at the pre-site closure meeting; and c) submit the completed site closure plan to the DEQ for review and approval within forty-five (45) days of the pre-site closure meeting. The permittee must complete the DEQ approved site closure plan.

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# Appendix 1

## Environmental Monitoring Serial Numbers

### WASTEWATER SAMPLING POINTS

Serial Number	Description
WW-015501	Composite sample of effluent at the effluent control and monitoring station (ECMS)

### HYDRAULIC MANAGEMENT UNITS

Serial Number	Description	Length
MU-015501	Industrial Waste Ditch	3.2 miles

### GROUNDWATER MONITORING

Serial Number	Description	Location (from IWD outfall)
GW-015501	USGS - 12 Regional Up-gradient Monitoring Well	3.0 miles N
GW-015502	NRF - 6 Effluent System Monitoring Well	0.13 miles NE
GW-015503	NRF - 7 Site Cross/Up-gradient Monitoring Well	0.63 miles NE
GW-015504	NRF - 8 Site Down-gradient Monitoring Well	0.47 miles S
GW-015505	NRF - 9 Site Down-gradient Monitoring Well	0.58 miles S
GW-015506	NRF - 10 Site Down-gradient Monitoring Well	0.61 miles SE
GW-015507	NRF - 11 Site Down-gradient Monitoring Well	0.63 miles SE
GW-015508	NRF - 12 Site Down-gradient Monitoring Well	0.61 miles SE
GW-015509	NRF - 13 Effluent System Monitoring Well	0.5 miles NE
GW-015510	USGS -102 Site Down-gradient Monitoring Well	0.26 miles SW
GW-015511	USGS - 97 Regional Down-gradient Monitoring Well	1.11 miles S
GW-015512	USGS - 98 Regional Down-gradient Monitoring Well	3.0 miles SW

# Appendix 1

## Environmental Monitoring Serial Numbers

GW-015513	USGS - 99 Regional Down-gradient Monitoring Well	2.32 miles S
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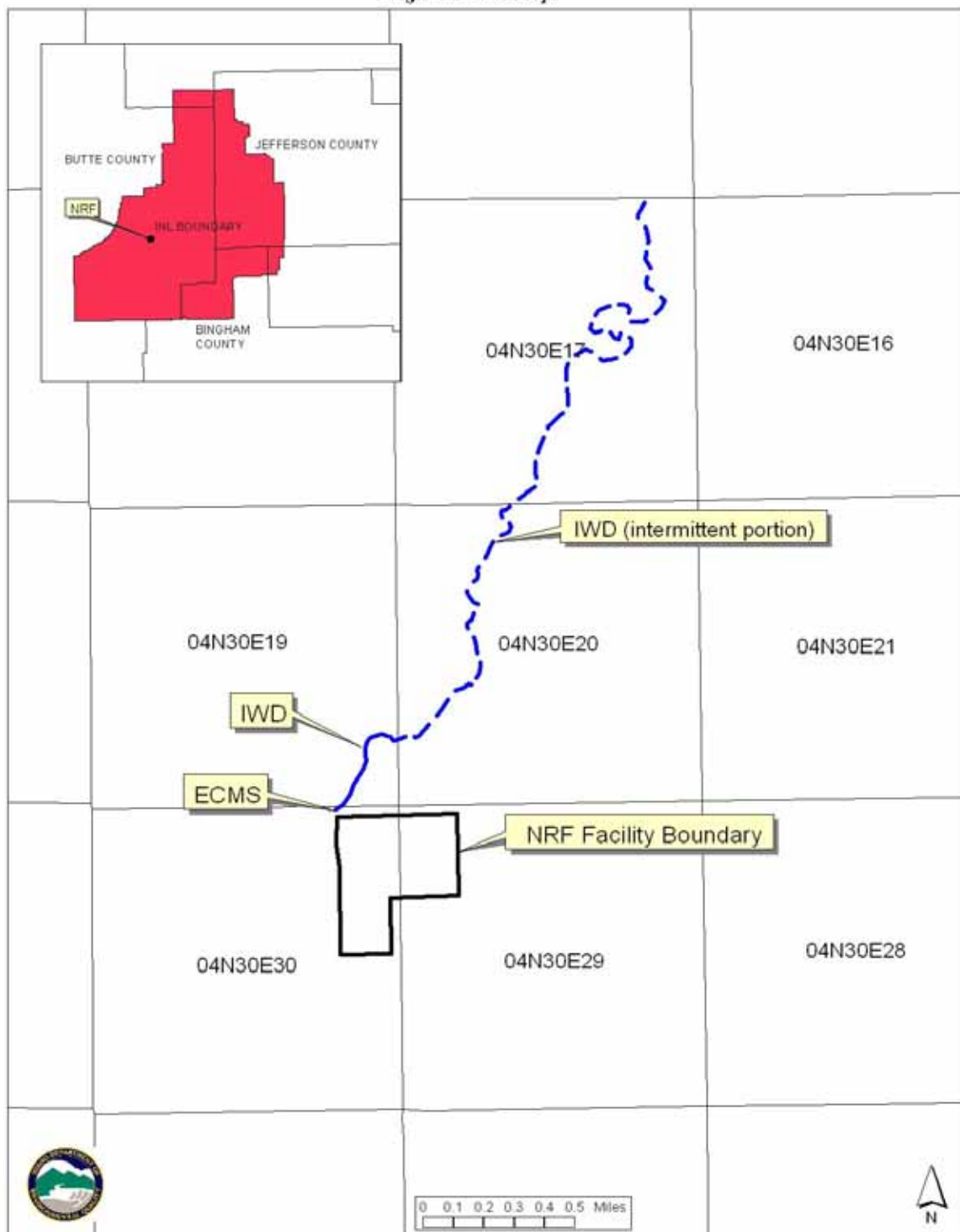
## SOIL AND SEDIMENT SAMPLING

Serial Number	Description
SS-015501	Grab sample of soil outfall of the IWD
SS-015502	Grab samples of sediment from the outfall of the IWD and it associated discharge pond. (6 random locations within the wetted area)

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## Appendix 2 Site Maps

Figure 1. Site Map



## Appendix 2 Site Maps

FIGURE 2. Water Table Elevation Map (adapted from Figure 9 of permit application)

